

**METHOD OF AND APPARATUS FOR
SUBSTRATE PRE-TREATMENT**

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ABSTRACT

The present invention relates generally to a method and apparatus for converting a precursor material, preferably organometallic, to a film, preferably metal-containing, that is adherent to at least a portion of a substrate. Both method and apparatus include a pre-conversion step or section, and a step or section for substantial conversion of a portion of material from the pre-conversion step or section into the form of a predetermined pattern, wherein this substantial conversion results in a metal-containing patterned layer on the substrate.

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